



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2006

July 2006									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MINNESOTA, Central and South Central</u>									
Morrison County									
1 WSW Cushing	01	0015CST			0	0			Hail(0.88)
Carver County									
Watertown	01	0415CST			0	0			Hail(1.25)
Lac Qui Parle County									
4 S Madison	13	1407CST 1408CST			0	0			Hail(0.75)
Lac Qui Parle County									
Louisburg	13	1415CST 1416CST			0	0			Hail(0.75)
Stevens County									
8 SSE Chokio	13	1430CST 1431CST			0	0			Hail(0.75)
Stevens County									
1 W Alberta	13	1450CST 1451CST			0	0			Hail(1.00)
Yellow Medicine County									
6 NE Clarkfield	13	1500CST 1700CST			0	0			Heavy Rain
Four and one tenth inches of rain fell at a farm in Stony Run township.									
Lac Qui Parle County									
Boyd	13	1519CST			0	0			Hail(0.75)
Lac Qui Parle County									
2 NW Boyd	13	1535CST 1536CST			0	0			Hail(0.88)
Lac Qui Parle County									
3 N Madison	13	1540CST 1640CST			0	0			Heavy Rain
Three inches reported in one hour, with 3.42 inches of total rain for the event.									
Yellow Medicine County									
5 WNW Granite Falls	13	1545CST 1546CST			0	0			Hail(0.88)
Chippewa County									
Montevideo to 4 SE Montevideo	13	1600CST 1800CST			0	0			Heavy Rain
Four and one half inches of rainfall reported at area farm southeast of Montevideo, with 4.85 inches recorded at a nursery in Montevideo. Manhole covers in Montevideo were pushed up due to the water pressure									
Swift County									
Appleton	13	1600CST 1800CST			0	0			Flash Flood
Emergency Manager reported that nearly five inches of rain fell in Appleton. Cars flooded up to their hoods at the underpass near the intersection of Highways 59 and 119. Two feet of water on Main Street, with water flowing into a building. Also reported by trained spotter and law enforcement official.									
Lac Qui Parle County									
Madison	13	1609CST 1610CST			0	0			Hail(0.75)
Lac Qui Parle County									
Madison	13	1609CST			0	0			Thunderstorm Wind (EG55)
Large branches down.									
Yellow Medicine County									
5 WNW Granite Falls	13	1610CST 1611CST			0	0			Hail(0.75)



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<u>MINNESOTA, Central and South Central</u>									
Chippewa County									
2 W Milan	13	1630CST			0	0			Thunderstorm Wind (EG55)
		Four inch tree limbs down.							
Lac Qui Parle County									
1 NE Boyd	13	1630CST			0	0			Hail(0.75)
	14	1630CST							
Yellow Medicine County									
4 NW Granite Falls	13	1730CST			0	0			Hail(0.75)
Chippewa County									
2 W Maynard	13	1733CST 1735CST			0	0			Hail(1.25)
Extensive damage incurred to corn and soybean fields according to Leon Johnson, executive director of the Chippewa County Farm Service Agency. Strong winds were also reported with the storm. Information provided by Montevideo American-News newspaper.									
Chippewa County									
Clara City	13	1743CST			0	0			Thunderstorm Wind (MG52)
		Measured by MNDOT road weather sensor.							
Yellow Medicine County									
Granite Falls	13	1755CST			0	0			Thunderstorm Wind (MG60)
		At Granite Falls airport. Reports of trees down between Granite Falls and Hanley Falls along Highway 23							
Renville County									
Danube	13	1800CST			0	0			Thunderstorm Wind (EG52)
		Several trees down.							
Renville County									
Olivia	13	1810CST			0	0			Thunderstorm Wind (EG52)
		Few trees toppled.							
Meeker County									
4 ENE Cosmos	13	1820CST			0	0			Thunderstorm Wind (EG55)
		Large tree down.							
Renville County									
Bird Island	13	1820CST			0	0			Thunderstorm Wind (EG55)
		A few trees down.							
Renville County									
Hector	13	1825CST			0	0			Thunderstorm Wind (EG55)
		Several trees felled.							
Meeker County									
Cosmos	13	1835CST			0	0			Thunderstorm Wind (EG55)
		Tree down.							
Mcleod County									
Hutchinson	13	1847CST 1848CST			0	0			Thunderstorm Wind (MG54)
Light pole down, one 10 foot tree felled, several 4-5 inch branches sheared away in southwest portion of city. Large willow tree felled at 1300 block of Jefferson Street as reported by Hutchinson Leader newspaper. Wind measured by trained spotter.									
Mcleod County									
1 NW Silver Lake to Silver Lake	13	1855CST			0	0			Thunderstorm Wind (EG55)
		Few trees down.							



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<u>MINNESOTA, Central and South Central</u>									
Mcleod County									
Glencoe	13	1905CST			0	0			Thunderstorm Wind (EG55)
		A few trees down.							
Mcleod County									
Lester Prairie	13	1905CST			0	0			Thunderstorm Wind (EG52)
		Few trees down.							
Wright County									
Howard Lake	13	1907CST			0	0			Thunderstorm Wind (EG55)
		Trees and power lines down.							
Wright County									
1 SW Delano	13	1915CST			0	0			Thunderstorm Wind (EG55)
		Trees down.							
Hennepin County									
4 WNW Maple Plain	13	1923CST			0	0			Thunderstorm Wind (EG55)
		Tree down across road at intersection of County roads 11 and 92.							
Hennepin County									
Mound	13	1923CST			0	0			Thunderstorm Wind (EG55)
		Tree down across road at Bartlett blvd. and West Edge.							
Carver County									
Chaska	13	1933CST			0	0			Thunderstorm Wind (EG55)
		Tree down across road at HWY 41 and Pioneer trail.							
Scott County									
Shakopee	13	1940CST			0	0			Thunderstorm Wind (EG55)
		Tree down across road at Highway 101 and Louis bridge.							
Steele County									
3 W Steele Center	13	2313CST			0	0			Thunderstorm Wind (MG57)
		Measured by MNDOT road weather sensor.							
Steele County									
2 S Bixby	13	2325CST			0	0			Thunderstorm Wind (EG57)
Morrison County									
4 N Little Falls	16	0025CST			0	0			Hail(1.00)
Todd County									
Long Prairie	16	0124CST			0	0			Hail(0.75)
Yellow Medicine County									
Canby	16	2215CST			0	0			Thunderstorm Wind (MG55)
		Wind gust measured at the Canby Airport. The gust resulted from a Heat Burst caused by decaying thunderstorms and a very warm and dry lower and middle atmosphere. In addition to the wind gust, the temperature jumped from 91 degrees to 100 degrees between 10:35 PM and 11:15 PM. The dew point temperature also dropped from 63 degrees to 32 degrees between 1035 PM and 1115 PM.							
Yellow Medicine County									
3 S Canby	19	0600CST			0	0			Hail(0.75)
Yellow Medicine County									
5 W Clarkfield	19	0601CST 0603CST			0	0			Hail(0.88)
Brown County									
Springfield	19	0733CST 0734CST			0	0			Hail(0.75)



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<u>MINNESOTA, Central and South Central</u>									
Brown County									
Comfrey	19	0745CST 0746CST			0	0			Hail(0.75)
Brown County									
New Ulm	19	0750CST			0	0			Thunderstorm Wind (EG52)
			Tree down over Shag Road along Minnesota River.						
Watonwan County									
Butterfield	19	0755CST 0756CST			0	0			Hail(0.75)
Le Sueur County									
6 E Le Sueur	19	0815CST			0	0			Hail(0.75)
Le Sueur County									
5 SE Le Center	19	0830CST			0	0			Hail(0.88)
Rice County									
Faribault	19	0840CST			0	0			Thunderstorm Wind (EG58)
			Downed trees and powerlines. Xcel Energy reported sixteen hundred customers lost power from about 9:30 AM to 10:28 AM. Information about the power outage supplied by Faribault Daily newspaper.						
Waseca County									
2 SE Waseca	19	0840CST			0	0			Thunderstorm Wind (EG52)
			Power pole down.						
Goodhue County									
Cannon Falls	19	0905CST			0	0			Thunderstorm Wind (EG52)
			Portion of large tree toppled onto garage of home in the 1100 block of North 1st Street. Reported by Cannon Falls Beacon newspaper.						
Goodhue County									
Zumbrota	19	0912CST			0	0			Thunderstorm Wind (EG55)
			Scattered trees down.						
Goodhue County									
Goodhue	19	0920CST			0	0			Thunderstorm Wind (EG58)
			Tree down.						
Watonwan County									
St James	19	2026CST 2027CST			0	0			Hail(0.75)
Watonwan County									
St James	19	2037CST 2040CST			0	0			Hail(1.75)
			Hail occurred on the west side of town along St. James Lake. As reported by St. James Plain Dealer newspaper						
Blue Earth County									
Good Thunder	19	2050CST 2051CST			0	0			Hail(1.00)
Blue Earth County									
Good Thunder	19	2057CST 2058CST			0	0			Hail(1.75)
Martin County									
Truman	19	2104CST 2105CST			0	0			Hail(0.88)
Watonwan County									
St James	19	2110CST 2111CST			0	0			Hail(0.75)



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					Killed	Injured	Property Crops	
<u>MINNESOTA, Central and South Central</u>								
Steele County								
Meriden	19	2115CST 2116CST			0	0		Hail(1.00)
Steele County								
Owatonna	19	2120CST 2121CST			0	0		Hail(0.88)
Hail reported on the west side of Owatonna.								
Martin County								
Welcome	19	2141CST 2142CST			0	0		Hail(0.88)
Waseca County								
Janesville	19	2155CST 2156CST			0	0		Hail(0.88)
Steele County								
Deerfield	19	2200CST 2201CST			0	0		Hail(1.75)
Waseca County								
Waseca	19	2210CST 2211CST			0	0		Hail(1.00)
Hail occurred at the County Fairgrounds in the northeastern portion of the city. Ponding of water was also reported near Clear Lake Park.								
Goodhue County								
Zumbrota	19	2215CST 2216CST			0	0		Hail(0.75)
Steele County								
Owatonna	19	2221CST 2222CST			0	0		Hail(0.88)
Mcleod County								
6 N Hutchinson	24	1515CST			0	0		Thunderstorm Wind (EG60)
Large barn blown down, with additional damage to a nearby home and garage. Chimney on home was destroyed, with some damage to shingles. The wall of the garage was damaged.								
Hennepin County								
3 W Maple Plain	24	1520CST 1521CST			0	0		Hail(0.88)
Wright County								
Montrose	24	1611CST 1612CST			0	0		Hail(0.75)
Wright County								
3 N Delano	24	1624CST 1625CST			0	0		Hail(0.75)
Hennepin County								
Rockford	24	1625CST 1626CST			0	0		Hail(0.75)
Hennepin County								
Plymouth	24	1636CST 1637CST			0	0		Hail(0.75)
Hennepin County								
Minneapolis	24	1640CST			0	0		Hail(1.75)
Reported near Broadway and Marshall in northeastern Minneapolis.								
Dakota County								
St Paul Arpt	24	1643CST			0	0		Thunderstorm Wind (MG54)
Dakota County								
South St Paul	24	1645CST			0	0		Thunderstorm Wind (EG54)
Fourteen inch diameter tree branch toppled onto an automobile. Damage occurred on Warburton Ave.								



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<u>MINNESOTA, Central and South Central</u>									
Hennepin County									
Minneapolis	24	1645CST 1646CST			0	0			Hail(1.75)
Reported at the University of Minnesota campus.									
Ramsey County									
St Paul	24	1646CST			0	0			Thunderstorm Wind (EG53)
Six inch tree down.									
Hennepin County									
Minneapolis	24	1649CST 1650CST			0	0			Hail(1.00)
Reported near the Metrodome.									
Ramsey County									
St Paul	24	1654CST 1655CST			0	0			Hail(0.88)
Ramsey County									
St Paul	24	1656CST 1657CST			0	0			Hail(1.50)
Dakota County									
Farmington	24	1700CST			0	0	1M		Lightning
A lightning strike caused a fire at the Donnelly Farms in rural Farmington on Flagstaff Avenue. Approximately 500 hay bales were burned in the fire, causing an estimated 1 million dollars in damage. Information provided by Northfield News newspaper									
Kanabec County									
Ogilvie	25	1805CST			0	0			Thunderstorm Wind (EG55)
Tree down.									
Isanti County									
6 SE Isanti	25	1835CST 1836CST			0	0			Hail(0.75)
Numerous small branches felled.									
Chisago County									
4 NW Chisago City	25	1930CST			0	0			Thunderstorm Wind (EG55)
Six inch diameter pine tree snapped off and deposited on power line.									
Lac Qui Parle County									
.5 SE Madison to 4 W Boyd	27	1805CST 1855CST			0	0			Hail(1.75)
Some farmers around Dawson experienced large hail for 35 minutes, which decimated crops. The hail swath of golf ball size was about 2 miles wide, from just southeast of Madison, to the west side of Dawson, then to about 3 miles southeast of Dawson. From that point, one inch diameter hail continued to four miles west of Boyd.									
Lac Qui Parle County									
3 NW Dawson to Dawson	27	1825CST 1832CST			0	0			Thunderstorm Wind (EG60)
Rear flank downdraft adjacent to the tornado downed numerous large trees and caused minor building damage									
Lac Qui Parle County									
2 WNW Dawson to 1.5 W Dawson	27	1826CST 1830CST	0.5	33	0	0			Tornado (F0)
A grove of trees was damaged in the tornado's path, along with a few shingles and planks that were torn off a barn, including a small amount of siding ripped off a house. The tornado was accompanied by large hail, very heavy rain, and damaging rear flank downdraft wind.									
Morrison County									
Motley	29	0120CST			0	0			Thunderstorm Wind (EG55)
Tree felled over road.									



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<u>MINNESOTA, Central and South Central</u>									
Morrison County									
8 ESE Motley	29	0130CST			0	0			Thunderstorm Wind (EG55)
		Tree toppled over road.							
Mille Lacs County									
2 N Isle	29	0220CST			0	0			Thunderstorm Wind (EG55)
		Tree felled over road.							
Mille Lacs County									
6 S Onamia	29	0220CST			0	0			Thunderstorm Wind (EG55)
		Tree downed over road.							
Kanabec County									
1 W Mora	29	0240CST			0	0			Thunderstorm Wind (EG52)
		Large branch fell across power line.							
Kanabec County									
Mora	29	0245CST			0	0			Thunderstorm Wind (EG55)
		Tree toppled at Grove Avenue and 3rd Street.							
MNZ041>045-047>070-073>078-082>085-091>093									
		Douglas - Todd - Morrison - Mille Lacs - Kanabec - Stevens - Pope - Stearns - Benton - Sherburne - Isanti - Chisago - Lac Qui Parle - Swift - Chippewa - Kandiyohi - Meeker - Wright - Hennepin - Anoka - Ramsey - Washington - Yellow Medicine - Renville - McLeod - Sibley - Carver - Scott - Dakota - Redwood - Brown - Nicollet - Le Sueur - Rice - Goodhue - Watonwan - Blue Earth - Waseca - Steele - Martin - Faribault - Freeborn							
	30	1000CST			0	0			Heat
	31	2300CST							
		Temperatures topped out near 100 degrees across much of central and southern Minnesota during the afternoon hours of the 30th and 31st, with maximum heat indices ranging from 105 on the 30th, to 110 on the 31st. No reports of fatalities or injuries were received, but heat advisory criteria were met.							
Stevens County									
11 S Morris	31	1634CST 1635CST			0	0			Hail(0.75)
		Hail occurred along Highway 59.							
Douglas County									
Alexandria	31	1704CST			0	0			Thunderstorm Wind (EG52)
		Large tree limb down across power line.							
Douglas County									
2 SE Miltna	31	1710CST			0	0			Thunderstorm Wind (EG55)
		Trees downed across road.							
Morrison County									
6 NE Little Falls	31	1900CST			0	0			Thunderstorm Wind (EG55)
		A tree was reported felled in Belle Prairie Township.							
Kanabec County									
Ogilvie	31	2110CST			0	0			Thunderstorm Wind (EG60)
		Roof ripped off barn at 1806 Delta Street. An outbuilding on this property was also damaged. The cover of a hot tub was shredded. The strong winds also lifted a calf out of its pen and flung it into a pasture. Scattered trees were also downed.							
Sherburne County									
Becker	31	2200CST			0	0			Thunderstorm Wind (EG55)
		Trees toppled over road.							

WISCONSIN, West

Chippewa County									
2 S New Auburn	01	0740CST			0	0			Hail(0.75)



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<u>WISCONSIN, West</u>											
Rusk County											
Glen Flora	24	1210CST 1211CST			0	0					Hail(0.88)
Rusk County											
Sheldon	24	1255CST 1256CST			0	0					Hail(1.25)
Barron County											
Cumberland	24	1340CST 1354CST			0	0					Hail(0.88)
Eau Claire County											
Fall Creek	24	1625CST 1626CST			0	0					Hail(0.75)
Dunn County											
Menomonie	24	1705CST 1706CST			0	0					Hail(1.25)
Hail occurred from one mile west of Menomonie to north side of Menomonie											
Dunn County											
Menomonie	24	1714CST 1715CST			0	0					Hail(1.00)
St. Croix County											
3 N Somerset	24	1724CST 1725CST			0	0					Hail(0.75)
Near Highway 35 and 210th.											
Dunn County											
1 E Menomonie	24	1726CST 1727CST			0	0					Hail(1.50)
Eau Claire County											
Eau Claire	24	1727CST 1745CST			0	0					Hail(1.00)
Most hail reports came from the western portion of the city.											
Pierce County											
Spring Valley	24	1728CST 1729CST			0	0					Hail(1.75)
Dunn County											
Elk Mound	24	1730CST 1731CST			0	0					Hail(1.00)
Eau Claire County											
Eau Claire	24	1732CST			0	0					Thunderstorm Wind (EG52)
Scattered power lines and telephone lines felled from 3 miles west of Eau Claire to the northwest portion of town.											
Eau Claire County											
Eau Claire to Altoona	24	1745CST 1930CST			0	0	250K				Flash Flood
Cars stalled in one to two feet of water between Eau Claire and Altoona near Fairfax street. Boat floated off of trailer. Portion of one thousand foot storm sewer pipe near UW-Eau Claire collapsed.											
Eau Claire County											
1 NE Eau Claire	24	1745CST 1746CST			0	0					Hail(0.75)
Pierce County											
Spring Valley	24	1745CST 1746CST			0	0					Hail(2.00)
Two inch branches also reported down.											



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<u>WISCONSIN, West</u>									
Dunn County									
Menomonie	24	1751CST			0	0			Thunderstorm Wind (EG52)
			Eight inch tree down at high school.						
Polk County									
3 E Clear Lake	25	1530CST			0	0			Thunderstorm Wind (EG55)
			Trees downed in Clear Lake Township at County Road A and 25th Ave.						
Polk County									
6 E East Farmington	25	1640CST			0	0			Thunderstorm Wind (EG55)
			Trees felled along West Church Road, between 192nd and 200th Streets in Alden Township.						
Polk County									
5 SW Amery	25	1645CST			0	0			Thunderstorm Wind (EG52)
			Trees were downed in Alden Township, over roads near County Road C and 30th Avenue.						
Polk County									
Dresser to 4 E Dresser	25	1645CST			0	0			Thunderstorm Wind (EG55)
			Trees downed in Clear Lake Township between the village of Dresser and Co. Road Y.						
Rusk County									
8 N Bruce	28	2306CST			0	0			Hail(0.88)
Barron County									
2 SE Cameron	29	0433CST			0	0			Thunderstorm Wind (EG55)
			Tree downed across road.						
Rusk County									
1 N Ingram	30	0300CST 0301CST			0	0			Hail(0.75)
Barron County									
7 NW Rice Lake to Rice Lake	30	0420CST 0425CST			0	0			Thunderstorm Wind (MG52)
			Trees were downed along a seven mile swath into Rice Lake. A few trees were downed along 14th Street, with two blocking the road. Another tree was felled near 23rd Avenue and 13th Street, with another one blocking the southbound lane of 18th Street. Six to eight inch diameter tree felled in Rice Lake. Most of the northern portion of Rice Lake without power for several hours due to downed power lines. A storm spotter measured 60 mph at his residence in Rice Lake.						
Rusk County									
1 N Ladysmith	30	0525CST			0	0			Thunderstorm Wind (EG52)
			Large tree limb fell onto County road J.						
Chippewa County									
1 S Bloomer to 1 SE Bloomer	30	0533CST 0534CST			0	0			Hail(1.00)
WIZ014>016-023>028									
			Polk - Barron - Rusk - St. Croix - Pierce - Dunn - Pepin - Chippewa - Eau Claire						
	31	1000CST 2300CST			0	0			Heat
			Temperatures topped out near 100 degrees across much of west central Wisconsin during the afternoon hours of the 31st, with maximum heat indices ranging from 102 to 107 degrees. No reports of fatalities or injuries were received, but heat advisory criteria were met.						